Name			Dat	e	Period					
Starlight										
diffractio analyzed observe the what dire	The spectrum of n gratings can als by astronomers a he spectra of som ction an object is the are shifted tow	o divide light in nd provides a gree elements and l moving. The lin	to its colors. It can deal of inflearn about recones on the spe	Light giver formation, it shift, a water trum of an	n off by a sta in this lab yo ay that light	r is ou will can show				
Material	s: spectroscope of	or diffraction gra	ting slides, lig	tht sources	, colored per	ncils				
Procedur 1. 2. Prediction	Make sure you grating.		ources provide	ed. Draw th	_					
Data : Write the elements name to the right of the spectra:										
red	orange	yellow	green	blue	violet	name:				
red	orange	yellow	green	blue	violet	name:				
red	orange	yellow	green	blue	violet	name:				
red	orange	yellow	green	blue	violet	name:				

red	orange	yellow	green	blue	violet	name:				
red	orange	yellow	green	blue	violet	name:				
Analys	sis:									
1.	Which element had the most colorful spectrum?									
2.	The least?									
3.	What does the spectrum tell about a star?									
4.	When do elements give off colors?									
5.	Red shift occurs when the colors are shifted to the red end of the spectrum. It									
	indicates that an object is moving away from the observer. Redraw the spectrum									
	of hydrogen showing a red shift:									
red	orange	yellow	green	blue	violet					
		-								